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Barnes.

1896

CARNATIONS

THE COTTAGE GARDENS

QUEENS

N.Y.

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COLLECTIONS.

Carnations....

25	plants,	novelties and	standard	sorts, $2.00
50	"	"	"	" 3.50
100	"	"	"	" 7.00
1000	"	"	"	" 50.00

Our selection of varieties, expressage prepaid by us.

Cannas....

12	dormant	roots, in	6	varieties, $1.50
100	"	"	10	" 6.00
1000	"	"	12	" 40.00

Our selection of varieties. Express or freight prepaid.

Chrysanthemums....

Cottage Garden Collection,	25	standard varieties,	$2.00
Castlewood	"	25 novelties,	6.00
La Fayette	"	8 "	3.00
Richmond	"	6 "	2.50

Above four collections, also one plant each of the pink sport from Ivory, and Wm. Simpson, 66 plants in all, $12.00.

100 strong plants, novelties and standard sorts, our selection, express prepaid for $12.00.

50 strong plants as above, express prepaid, $6.00.

Special Premiums.

Southern Florist and Gardener.

Free for one year with every $3.00 order.

American Gardening.

Free for one year with every $5.00 order

Gardening.

Free for one year with every $10.00 order of plants, seeds or bulbs from this catalogue.

Collections Excepted.

See Our Special Premiums on Third Page of Cover.

Our Methods of Doing Business.

Our terms are Cash with Order, or satisfactory reference from unknown customers. Remittances may be made by Post Office or Express Money Order on Queens, L. I., by New York draft, personal check or registered letter.

Prepaid Express Charges on Cannas. We will prepay freight or express charges on all orders for Cannas amounting to $25.00 and over when plants are ordered at the hundred rate.

Our Special Prepaid Rate for Small Packages. We have secured a special prepaid rate which allows of sending small boxes of four pounds and less weight at the same rate as by post, consequently on all small orders of Carnations and Chrysanthemums at the dozen or hundred price we send by express prepaid where the order amounts to $5.00 or upwards.

Reduced Express Rates. All plants are now billed by our express companies at 20 per cent. less than merchandise rates when packed in closed cases.

We prefer not to Send any plants by mail unless the party ordering has no convenient express office.

The most careful attention will always be given to packing and every effort will be made to secure safe arrival of goods in perfect order at destination.

Remember to write your name and post office address as well as express office address **plainly,** stating by which express company you desire goods forwarded.

Warrantee. We warrant all plants or cuttings that are grown by us and sold from our establishment to be true to name, to be in healthy growing condition when delivered to express company from our establishment, and we will cheerfully replace any stock not fulfilling these conditions, but we do not warrant any plants of any description to remain free from disease of any kind after they have passed from our care, nor do we assume any responsibility whatever regarding the purchaser's success in cultivating the plants.

All Claims must be made **immediately** upon receipt of goods, and parties claiming must return the entire lot of stock in original package before their claims will be considered.

Novelties. We catalogue each year the most promising novelties that are introduced by the leading seedling growers of the country. The stock of these novelties is purchased by us from the originators and will be shipped to our customers in the condition that it is delivered to us.

CARNATIONS.

CULTURAL DIRECTIONS.

Soil and Benches. Benches are made so as to hold about five inches of soil. The bottoms are made of hemlock strips five inches wide, these being placed crosswise of the bench, leaving ¾ of an inch space between the strips. This admits abundant drainage. In preparing the bench for planting, rotted manure, sods, sphagnum moss, or some rough material is laid on the bottom about an inch deep, over which is spread 4½ ins. deep, the soil, composed of ¾ well rotted sods and ¼ well rotted manure. The manure being mixed with the sod about two weeks before putting the soil on the benches.

Temperature. The average temperature at which we have found carnations to do the best is 55 degrees at night and about 10 degrees higher during the day. On dark days, we carry them at 55 to 60 degrees and on bright days, the temperature often runs to 70 and even 80 degrees. During the nights following dark days, the temperature is allowed to fall to 50 degrees.

Watering. The soil is kept moderately moist, and is never allowed to dry out to the bottom of the bench. Care is taken not to keep the soil too moist, but to keep it in that condition that will promote constant vigorous growth without checking the plant; drying out the carnation is an operation that is dangerous if large flowers are desired, as it checks the growth. If extra large flowers on long stiff stems are desired, checking the plant is to be avoided, as it invariably reduces the size of the flower, and also shortens the stem.

Syringing. Plants are freely syringed during bright weather and also for the purpose of keeping down red spider. In syringing care should be taken not to syringe late in the day, leaving the plants wet during the night, the foliage should be comparatively dry at evening.

Disbudding. All the lateral buds are removed as soon as large enough to get hold of. The buds must be removed when very small or the operation will effect nothing. Disbudding the carnation does not accomplish much unless supplemented by close attention in growing and general good culture.

Insects. For red spider, syringing, fumigating with tobacco stems and painting the pipes with a mixture of lime and sulphur. For green fly, fresh tobacco stems are placed under the benches. Fumigating is practiced and also vaporizing with the rose leaf extract of tobacco.

Cultivating the Soil on the Benches. The soil is cultivated with the excelsior weeding hook whenever it becomes close and hard. Care is taken not to cultivate more than half an inch deep so as not to disturb the roots.

Staking. The plants are supported by wires run the length of the bench which are held by cross wires fastened to posts about eight inches above the soil; lines of cord are passed across the bench and fastened to these wires, between the plants so as to form a net work of wire and cord, through which the plants grow. If the plant grows very tall, another set of wire and cord is put about eight inches above the first set. This method works very nicely with many of the moderate growing sorts, but it is not as satisfactory with very tall growers, especially where the stem is inclined to be weak.

Fertilizing. In the spring of the year, when the soil becomes exhausted, we use a light mulch of thoroughly well rotted manure, also give moderate waterings of liquid manure, care being taken not to over do this.

General Directions. Cuttings are rooted from November to June 1st. Those rooted in May and June being taken direct from the sand and planted in the field. Those rooted before May are planted in flats or on shallow benches, and grown cool until ready for setting out. The field is thoroughly plowed and made as level as possible, with the exception of leaving ditches about every 40 to 50 feet in order to drain off surface water from the heavy rains. Plants are planted in rows three feet apart and about eight inches apart in the row. Cultivation is done by horse power and ordinary cultivator, such as is used for cultivating corn. While growing in the field, plants are cultivated at least once in two weeks and always after every heavy rain. They are frequently hoed during the season and kept perfectly clean and are pinched back whenever necessary.

Manuring in the Field. We use about 25 two-horse wagon loads of well rotted stable manure per acre, spreading it upon the

FLOWER ROOM.

soil immediately after plowing. This manure is thoroughly worked in with an Acme harrow, the ground being harrowed over six to seven times, the operation breaking up the soil and manure so that the soil is in the best of condition for setting out the plants. Plants are usually set out about the 10th to 15th of May, as we prefer not to have them exposed to frost immediately after being set out.

Lifting in the Fall. We aim to commence lifting our plants as early as the 25th of August, and endeavor to have all planted on the benches by the 10th of September. In lifting the plant as much of the fibrous root is preserved as possible, and care is taken to lift and plant on the benches with the least possible check to the plant. Plants are set about 10 to 12 inches apart on the bench so as to give an abundance of room and air about the plant while growing. If fine flowers are desired, it is necessary to give the plants this space so that the plant can grow natural and leave an air space between the rows. If the plants are crowded on the benches, weak stems and smaller flowers are the result. In setting plants, care is taken to put the roots in as near the same position as they occupied in the field as possible, and to press the soil quite firmly about the roots, leaving the neck of the plant a little out of the level of the soil. This is quite essential if you intend using a mulch afterwards, as if the plants are set too deep they are inclined to rot off during the winter, especially if mulching is resorted to. Immediately after the plants are set, they are thoroughly drenched, so as to firm them in the soil, and lightly shaded until the new growth commences.

Ventilation and Temperature After Setting. Immediately after setting, the houses should be made a little close for a day or two, especially avoiding any direct draughts upon the plants. As soon as the plants commence to grow, the houses are given abundant ventilation, and whatever water is necessary, and the temperature kept between 55 and 60 degrees in the day time and 50 degrees at night, until flowers commence, when the night temperature is increased to 55 degrees. As soon as the plants are thoroughly established nothing further is done excepting staking and looking after the ventilation and water. Do not keep your benches in a condition of mud, nor ever let them dry out thoroughly. Avoid any sudden checking of the growth, whether it be by cold draughts, allowing the temperature to fall too low at night, over-watering or drying out the plants. It is as essential to the growth of a fine carnation that it be kept continuously growing without a check, as it is to a Chrysanthemum. In watering watch your benches at the bottom and see that the soil is not dry at the bottom while being wet on top.

THE TREATMENT OF CARNATION RUST AND SPOT.

There are a number of fungus diseases affecting the Carnation. At the present time three different sorts of fungi are prevalent in this country; these are commonly called rust, spot and bacterial disease. All of these diseases have been so thoroughly distributed that at the present time there is probably no Carnation grower in this country who is absolutely exempt from any of them. The Carnation rust is the latest addition to the diseases, and while of recent importation, it has through various agencies become so thoroughly distributed that undoubtedly its presence will be felt during the ensuing year in the establishment of every Carnation grower in North America.

The character of the disease, that is a parasite which produces countless millions of microscopic spores, a portion of which rise up into the air and float about and are carried as far as the winds blow, and another portion of which fall upon the soil and there germinate, sending forth another crop, which is carried with the winds again, facilitates the rapid spread of the disease, so that within a period of about five years the disease has practically overran the country, and has become firmly seated, and may now be considered a condition which every Carnation grower must meet sooner or later. From the first time that this disease was brought to our notice we have conducted exhaustive experiments trying to cure and prevent its

progress, and while we are not in a position to offer a positive remedy or antidote for the disease once established, we believe that our treatment has enabled us to keep practically free from its effects, and to grow our Carnations in healthy condition and to the best advantage.

Our treatment of this disease consists mainly in the destruction of plants as soon as the disease makes its appearance, and in the destruction of the spores by the use of fungicides at the time which they germinate. It has been our invariable rule to immediately pull up and burn any plant upon which carnation rust has made its appearance. It has also been our rule to continuously spray our plants with the Bordeaux mixture and with sulphide of potassium. We have found altogether the best results and the surest remedy to be pulling out and burning the plants and also taking off any soil that may have had a chance to become affected and burning that as well. The use of fungicides at the present time is confined to the liquid Bordeaux mixture, to the sulphide of potassium which is sprayed upon the plants, and to the use of fostite. Up to the present time we have practiced spraying once in two weeks, but we have come to the conclusion that it would be better to spray the plants at least once a week, and in new houses where young stock is kept should any rust make its appearance, we recommend watering always with a spray and using in the water a light solution of sulphide of potassium. We also recommend the use of fostite upon very dark days.

In treating rust it will be found that some varieties once attacked by the rust will not yield to any treatment, and we would impress upon every person having any experience with this disease the importance of destroying all infected plants promptly.

We do not believe that rust is going to drive us out of Carnation growing nor do we belong to the class who make light of it, but think that it is an enemy to be constantly fought, as we do not think that carnations can be grown to the best advantage when allowed to become affected with any disease.

We have practiced dipping the large plants in Bordeaux mixture when benched in, but have found this an expensive and disagreeable operation. Our experiments thus far have shown that the proper time to avoid the disease is when the plant is in its young stages, by isolating all young stock from the growing houses and carefully inspecting each and every plant every day or two and pulling out and destroying all plants that have become affected with rust. Keeping the atmosphere in the propagating and plant houses constantly charged with fungicides we believe will enable the grower to eradicate the disease, excepting with some varieties in which the rust once established seems to maintain its hold in spite of any sort of treatment. We recommend also the sprinkling of dry air slacked lime over and about the plants, upon the soil, upon the walks and under the benches, and while we have no data to prove the assertion, we believed air slacked lime to be one of the best fungicides that we have.

PRICES are for well-grown established plants. The new varieties will be sent out on April 1st. All others, as soon as ready. Orders filled strictly in rotation. Single Carnation plants will be sold at dozen rates provided 6 plants of various varieties are taken in one order.

CARNATIONS.—VARIETIES.

WILLIAM SCOTT.

WM. SCOTT.

Bright pink. Undoubtedly the most productive large flowered pink Carnation thus far grown. Flower medium to large size, 2 to 3 inches in diameter on long stems of good substance and stiffness; calyx good. An early, constant and prolific bloomer. Color very pleasing and remarkably even. Plant a healthy, free grower. Seems to do well on all soils, and is undoubtedly the standard commercial pink Carnation of to-day, and has entirely supplanted Grace Wilder in this vicinity. No florist can afford to be without a good house of Scott. We have an enormous stock of extra selected cuttings grown from selected stock in the pink of condition and hope to be able to fill all orders. Per dozen, $1; per 100, $5.

1/2 doz

BRIDESMAID—(*New*).

Bright, clear pink. Large blooms, 2½ to 3½ inches, borne on strong, stiff stems 14 to 24 inches long. Color an even shade of bright, clear pink, fully as pleasing as the Bridesmaid Rose. Calyx strong, firm and not inclined to burst. Plant an exceptionally strong healthy grower, not inclined to take rust or any other disease. Moderately free bloomer, inclined to come in crops. Unquestionably the most magnificent pink Carnation we have ever grown, and it sells on the New York market at the highest price of any Carnation. This variety has taken first prizes wherever exhibited. Per dozen, $2; per 100, $10.

TRIUMPH—(*New, 1896*).

Pure pink of a yellowish tinge. Strong, vigorous, healthy grower. Large blooms, 2½ to 3½ inches on heavy, stiff stems 2 feet and upwards in length; splendid calyx; flower very full, of fine form; is deliciously fragrant and a splendid keeper. Exceptionally healthy; not at all inclined to take the rust. Very prolific, responding to ordinary culture. We consider this the most promising of this year's introductions. A splendid shipper; blooms shipped from Indiana were certificated at Boston by the National Carnation Society in February, 1895. Per dozen, $2.50; per 100, $15.

DAYBREAK.

Delicate salmon pink. Vigorous grower, medium to large flower, 2 to 3 inches on strong, stiff stems. Plant rather sprawling, foliage somewhat soft and inclined to disease. Color, when at its best, very soft, clear and pleasing. Flower will not stand long in full sun as the color quickly bleaches out. One of the best sorts that we have grown as it seems to give a paying crop in spite of all diseases to which it is subject. Does well on nearly all soils. Should not be grown too warm. Cuttings root freely, but plants are hard to carry over summer, as it is much infested with Red Spider. Care should be used in syringing. Our stock is exceptionally clean and is free from rust. Per dozen, $1; per 100, $5.

1/2 doz.

MADAME DIAZ ALBERTINA.

Light pink tinged with white. Flower large to very large, 3 to 3½ inches. Stem 16 to 24 inches long and very stiff. Petals finely fringed and center full and well built up. Center petals curiously twisted, showing the reverse side which is slightly tinged with white. The shape of the flower is very symmetrical and the general effect of color and form is decidedly pleasing. It is a moderately free bloomer with us, giving about two-thirds as many blooms as Scott. One of its chief attractions is its delicious clove fragrance. It is not adapted to light soils, seeming to do best on strong, heavy loams, well enriched. Cuttings root freely and should be struck rather early and plants lifted early in the fall, as it is rather late coming into bloom. Limited stock. Per dozen, $1½; per 100, $5.

MADAME DIAZ ALBERTINA.

ABUNDANCE—(*New, 1896*).

Bright salmon pink, approaching red. Dwarf slender grower. Stems about 12 inches long. Immensely productive. Flowers full and of fine form. Good strong calyx, which does not burst. The healthiest carnation plant we have thus far grown. Does not show a sign of disease. Will rank with the most productive sorts as a florist's variety. $2.50 per dozen; per 100, $15.00.

ROSE QUEEN—(*New*).

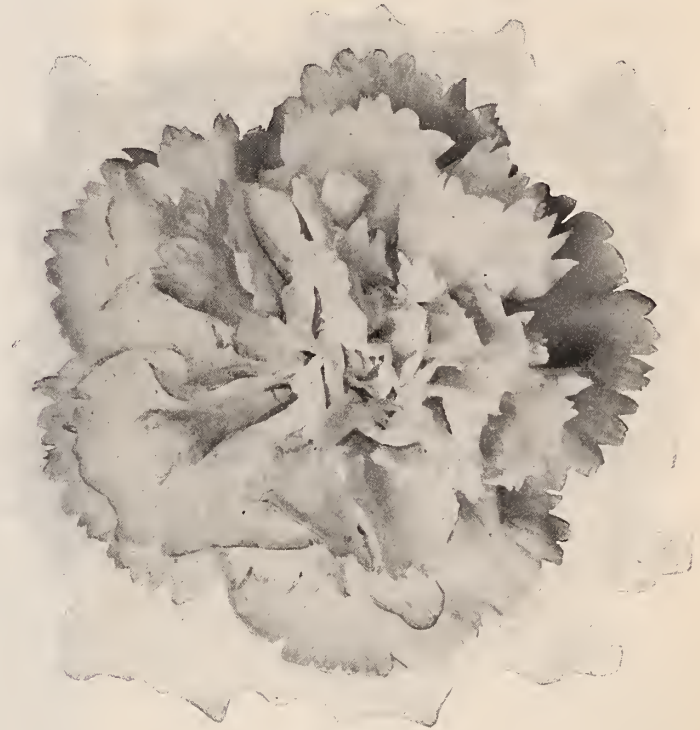
Soft pure rose. In Rose Queen we have a Carnation of that desirable and taking soft pure rose color, so much admired by flower lovers. The flowers are of good size and well formed, on very long stiff stems, and are pleasantly fragrant. The plant is one of the most vigorous and cleanest of growers, quite productive and decidedly promising. Per dozen, $2.50; per 100, $15.

DELLA FOX—(*New, 1896*).

A cross of Grace Wilder and Daybreak. A large flower much deeper in color than Daybreak on strong, stiff stems 20 to 30 inches, which are strong enough to hold the flowers erect. An exceptionally prolific bloomer; a stronger grower than Daybreak, and splendid calyx. Shows no sign of rust and is an exceptionally promising new variety. $2.50 per dozen; $15 per 100.

STORM KING.

Pure snow white. The most magnificent white Carnation extant. Very large snow white flowers 3 inches and upwards in diameter, borne on stiff, wiry stems 16 inches to 2 feet and upwards long. Bloom full, very symmetrical and of good substance and a good keeper and shipper, and very fragrant. Good calyx, not inclined to burst. Plant a healthy moderate grower and a good bloomer, producing two-thirds to three-quarters as many blooms as McGowan, which it resembles somewhat in constitution. Cuttings root as freely as McGowan. The stem is longer and stronger than McGowan, and sells for double the price. Requires a moderately heavy, fine, rich loam, and must not be grown too warm. Has never failed to win the first prize whenever exhibited. Awarded Massachusetts Horticultural Society Certificate, first-class; also National Carnation Society Certificate, first-class; also New York Florists' Club Certificate, first-class; also numerous first prizes. Per dozen, $2; per 100, $10.



STORM KING.

ETHEL—(*New, 1896.*)

Cottage Garden seedling. Creamy white when first opened, to snow white when fully developed. This is the result of a cross of Lamborn on Portia. Habit same as Portia. Foliage a beautiful bluish green. Stem long and stiff. Flower large and very full and very fragrant. Bursts its calyx at times in midwinter. A continuous bloomer, the bench never being without flowers. Cuttings root and grow like weeds. Fine bloomer outside in fall. This is not the ideal white carnation, but we will sell a limited number of strong cuttings in order to give those interested a chance to test it. Dozen, $2; per 50, $5.00.

ALASKA—(*New*).

Pure white. A vigorous, healthy grower and an abundant bloomer. The plant grows erect and self-sustaining. Flowers of good size and symmetrical in form, and excellent keepers and shippers. This latter quality is attested by the fact that blooms shipped from New Jersey to Chicago received two first premiums at the Exhibition in that city after having been 24 hours *en route*. A splendid commercial variety; has been awarded certificate of merit and numerous first prizes wherever exhibited. Per dozen, $1 ; per 100, $5.

LIZZIE McGOWAN.

White, slightly tinged with color at times. Medium to large flower ; 2 to 2¾ inches, on thin wiry stems scarcely stiff enough to properly support the flower, which is inclined to be somewhat ragged and irregular. Moderately vigorous grower, suffering in dry weather on light soils. Very productive and more generally grown by commercial growers than any other white Carnation. Stands rather high temperature under glass and should be grown in a very light house on rich soil to secure good results. Per dozen, $1 ; per 100, $5.

ANNIE LONSDALE—(*New, 1896*).

Snow white, exceptionally large flower, of the same habit as Della Fox, plant and foliage almost identical. $2.50 per dozen; $15 per 100.

METEOR—(*New*).

Brilliant deep scarlet maroon, magnificent color. Fine blooms, 2½ to 3 inches on firm, strong stems, 16 to 24 inches and over long. Plant a free, clean vigorous grower and good bloomer. Foliage resembling Portia. Seems to grow well on all soils. Cuttings strike freely. Good calyx. Finest dark sort shown to date and pronounced

METEOR.

by good judges to be the richest shade of color yet seen in Carnations. This variety has become very fashionable among flower buyers in New York and Washington, and sells at fancy prices. Awarded Certificate of Merit by Pennsylvania Horticultural Society and American Carnation Society and numerous first prizes. Per dozen $2 ; per 100, $10.

JUBILEE—(*New, 1896*).

Intense rich scarlet. One of the largest flowers among reds, borne on slender stiff stems 18 inches and upwards long. Calyx strong, not inclined to burst. Flower full and of fine form and very fragrant. A persistent free bloomer and splendid keeper and shipper, having taken first premium over all reds at the National Carnation Exhibition at Boston in February, 1895, after travelling from Indiana. Certificate National Carnation Society at Indianapolis in 1894. Per dozen, $2.50 ; per 100, $15.

DAZZLE—(*New, 1896*).

Brilliant deep scarlet. Flowers large, but not very full, but of good build and very brilliant color. In the fall blooms come semi-double, but recover as the season advances. Habit excellent, with a perfect stem and calyx. An early continuous bloomer, somewhat subject to stem rot, but does finely in some localities. $2.00 per dozen, $10.00 per 100.

PORTIA.

Bright scarlet. Small to medium flower on strong stiff stems of medium length. Brilliant color, clove scented. Vigorous grower, healthy and a most prolific bloomer. Its only drawback being its small sized flowers. Standard commercial scarlet. Per dozen, $1 ; per 100, $5.

HELEN KELLER.

Pure white, striped and edged with scarlet. A magificent variegated Carnation. The best of its class. Good grower and moderately free bloomer. Blooms large, 2½ to 3½ inches on fine long stems. Very desirable. Per dozen, $2; per 100, $10.

ARMAZINDY—(*New, 1896*).

Pure white, lightly penciled with scarlet. Fine large flower of good form on very stiff stems, 2 feet and upwards in length. Calyx very firm and flower does not burst. Very fragrant. Healthy grower ; good keeper and shipper. Certificated at Boston in 1895. Per dozen $2.50: per 100, $15.

GOLDFINCH.

Light clear yellow edged with pink. Medium sized very double flower on stiff stems, 12 to 14 inches long. Plant an upright free grower and free bloomer. Healthy and vigorous. Does well on all soils. Cuttings root freely. Desirable. Per dozen, $2; per 100, $10.

KITTY CLOVER—(*New*).

Light yellow, lightly striped with red and white. Vigorous wiry grower, continuous bloomer. Good sized, deeply fringed flowers on good clean stems, 14 to 16 inches long. The finely formed flowers are slightly fragrant, an unusual thing in yellow Carnations. Per dozen, $2; per 100, $10.

ELDORADO—(*New*).

Light clear yellow, free from all white markings, petals edged with a narrow band of light pink, being almost a Piccotee in markings. A strong, vigorous, healthy grower, fine healthy foliage. Stems of great length, supporting large, finely formed flowers. The flowers show their yellow color under artificial light and do not look white as many yellows do. Very promising. Per dozen, $2; per 100, $10.

CHRYSANTHEMUMS.

CULTURAL DIRECTIONS.

Chrysanthemums should always be grown on well drained benches in order to obtain the best results, in soil 5 inches deep.

Soil should be well prepared and thoroughly enriched with well decomposed manure, lime and bone dust.

Plants may be set on benches any time from April 1st until June 15th, and later where single stems or very late flowers are desired. Planted 12 x 12 and grown to 3 to 4 stems, very fine flowers may be grown. For exhibition blooms, plant 12 x 12 to 12 x 16 and grow to single stems.

Houses should have an abundance of light and ventilation, as much depends upon a clean sweet atmosphere free from surplus moisture and condensation when the blooms are getting their finish. Surplus moisture is fatal at this period, causing the blooms to turn black and rot.

During the summer the plants should be trained to 3 or 4 well balanced strong stems, all other growths being rubbed off. As soon as growth is well established, mulchings of well rotted manure should be applied and manure water may also be judiciously used.

In watering, care must be taken not to let the plants flag or wilt, as this is fatal to the highest development of the flower.

SPECIAL INSTRUCTIONS.

Don't fail to give ample drainage.

Don't stimulate until free growth is established, after that treat liberally.

A circulation of pure air is absolutely essential.

Shade lightly during summer.

A little charcoal in the soil benefits varieties that burn readily.

After the flower buds are set, gradually withhold stimulants and watch the watering carefully. Keep a pure and dry atmosphere. Keep the walks dry and clean. Don't syringe the walks or under benches.

If you have any plants that require syringing, don't keep them in your Chrysanthemum houses at this time

CHRYSANTHEMUMS.

In order to introduce the many new and standard varieties, we offer the following collections:

THE COTTAGE GARDEN collection of 25 standard varieties.	*$2.00*	*THE LAFAYETTE collection of 8 novelties.*	*$3.00*
THE CASTLEWOOD " 25 novelties.	*6.00*	*THE RICHMOND " 6 "*	*2.50*

The above four collections of 66 standard varieties and novelties of this year for $12.

For $15 we will send express prepaid, 100 good strong plants of novelties and standard varieties, our selection of sorts, at least 50 sorts in each collection.

For $8, 50 different varieties, novelties and standard sorts, prepaid, our selection of sorts.

The Richmond Collection of Six Selected Seedlings.

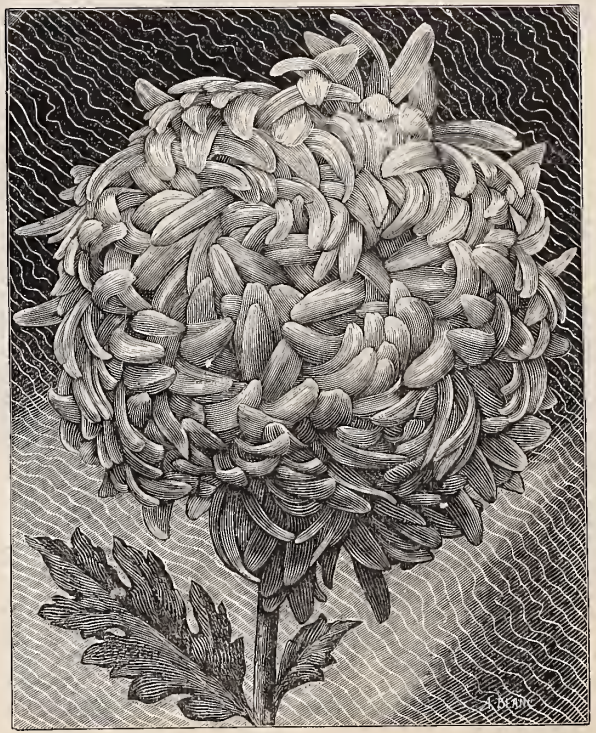
INTRODUCED THIS YEAR.

DAYDAWN. Blooms October 15th, 3 feet. Diameter of bloom, 7½ inches. A large, grand early white, center creamy lemon on opening, gradually becoming pure white. The petals increase in length from the center. Has a splendid stiff stem, with foliage quite up to the flower. Received N. C. S. Certificate after travelling to Boston. 35 cts each ; $3.50 per dozen.

GOVERNOR MATTHEWS. Midseason, 4½ feet. A free grower with handsome foliage ; stems moderately stiff ; color pearl pink, quite full ; a globular incurved form of large size. N. C. S. Certificate. 50 cts. each; $5 per dozen.

INDIANA. Blooms November 30th, 5½ feet. Immense, full globular flower, measuring 22 inches in circumference; nicely incurved; color clear pink within, a lighter shade without. Received N. C. S. Certificate, also first prize for best seedling pink at Madison Square November 26th. 50 cts. each; $5 per dozen; $35 per 100.

MRS. PERRIN. The Rose Pink Ivory, height 4 feet. Early midseason. The finest commercial pink to date. Stiff stems, beautiful foliage quite up to the flower. A good keeper and traveller. Globular, incurved, very bright in color. Received N. C. S. Certificate, 100 points, also first prize for best pink at Chicago, Boston and Philadelphia. 50 cts. each; $5 per dozen; $35 per 100.



WM. SIMPSON.

PINK IVORY (Mrs. Dalskov.) A fine sport from the well-known white variety Ivory, and has proven a grand early pink for market. 50 cts. each; $5 per dozen.

WM. SIMPSON. Is the earliest large pink Chrysanthemum grown. Has been cut as early as October 15th. In color, a pleasing shade of pink, a little lighter than Maud Dean. In form, like Mrs. E. G. Hill, but a deeper flower. A good, strong, healthy grower. Stiff stem, four to five feet high, with clean foliage. A silver cup costing $100, has been offered by the late James Simpson for the best vase of 25 blooms. A cup costing $50 will be offered for the best vase of 12 blooms, and a cup costing $25 will be offered for the best vase of six blooms. Competition for the above cups to occur at the Pennsylvania Horticultural Society's Show, November, 1896, and will be open to all. Will be sent out March 15th, 1896. Price, 60 cts. each; $6 per dozen.

The Castlewood Collection of Twenty-Five New Varieties.

INTRODUCED THIS YEAR.

INVINCIBLE. A mammoth, extra late white variety of most robust habit and medium height, with magnificent heavy foliage close up to the bloom; petals broad, firm and cupping to the center which is full and solid; blooms 10 to 12 inches in diameter, 6 to 7 inches in depth and 15 to 18 inches across. The largest of all whites and the best late variety in commerce, fitly named, as it cannot be surpassed in form, size or habit. Awarded N. C. S. Certificate at New York, November 23d, 1895. 50 cts. each.

PHRYNE. Large Japanese bloom, with extra broad petals over three-quarters of an inch in width, overlapping one another, forming a high, round flower. Inner surface rich, red bronze, reverse bright delicate chrome, strong stiff stem, with handsome heavy foliage. 35 cts. each.

NANSHON. A magnificent midseason white, larger than Ivory; petals fuller and finer flower, round and perfect, stiff stem and most beautiful foliage; habit dwarf; keeping and shipping qualities unsurpassed. One of the

best well built up commercial blooms, very full, never showing an eye and always forming a symmetrical ball. A standard for commercial use. 50 cts. each.

JESSIE WHITCOMBE. Grand, deep, golden yellow Japanese of immense size and perfect habit, broad, twisting and interlacing petals. A seedling of Golden Wedding, which it somewhat resembles. 35 cts. each.

RENA DULA. Extra early, large, high, round, incurved Japanese bloom, with broad cupping petals, forming a handsome globe-shaped flower of deep rich pink. Good keeper and shipper. Dwarf habit, stiff stem and fine foliage. In perfection October 5th to 10th. 35 cts. each.

PRIDE OF CASTLEWOOD. Magnificent, chaste and beautiful Chinese variety of largest size and purest snow white color, high, round and well built. Form one of the finest of this class. Foliage and stem all that can be desired and as near perfection as possible. Midseason to late flowering. 35 cts. each.

RED WARRIOR. Fine, large, early, reflexed Japanese variety, style and color of the old well known variety W. W. Coles, but perfectly double and full to the center; petals broad and flat, of deep rich chestnut red. The earliest and best red variety to date. Ready to cut October 5th to 10th. 50 cts. each.

RIVERSIDE. Early, clear, deep, canary yellow, with broad flat petals; flower large and reflexing in form, almost a counterpart of Viviand-Morel. Habit dwarf and perfect. In perfection October 10th to 15th. 35 cts. each.

MARION CLEVELAND. Immense high, round, solid bloom, with broad, massive, cupping petals. Ivory white, shading delicate lemon to center as in Philadelphia. Habit almost as dwarf as Ivory. Stem stiff and erect, with magnificent foliage close up to the bloom. The largest early white to date. Ready to market the same time as Whilldin, Marion Henderson, Troy, Lager and Parker. Awarded N. C. S. Certificate. 50 cts. each.

SIBYL KAYE. Extra early Japanese, almost identical in color to Daybreak Carnation. A fine, full flower with broad flat petals,

MARION CLEVELAND

stiff stem and handsome foliage; good shipper and keeper. In season October 10th to 15th. 35 cts. each.

J. R. KEIM. A grand, large, Japanese reflex bloom, with heavy, broad petals full to center, without an eye. Color brightest golden

CLARENCE

yellow, striped and suffused with red, reverse solid yellow; fine for commerce or exhibition purposes. 35 cts. each.

MRS. C. B. FREEMAN. Beautiful, clear yellow hirsute variety. A sport from the well known variety L. Boehmer, containing all the good characteristics of its parent and identical in every respect except color. Awarded N. C. S. Certificate. 50 cts. each.

MRS. W. P. RAYNOR. A beautiful, clear white Japanese variety. Early to midseason; long, flat petals; fine, round bloom, full to center, reflexing slightly toward the stem, which is strong and erect. Awarded certificate at New York. 35 cts. each.

VIOLET KING. Beautiful Japanese variety, broad petals, lower ones inclined to reflex but solid to center. Color dark self pink shading to violet, a novel and effective shade. 35 cts. each.

HEADLIGHT. Very large, bold, incurved, well-built Japanese bloom. Inside of petals rich deep carmine, shade of G. W. Childs; reverse silvery or satin-like glossy pink, fine stiff stem, with handsome foliage. 35 cts. each.

CLARENCE. Striking exhibition bloom, large double incurved flower, very full, never showing center. Intense bright red inside, with real golden reverse, quite distinct from any other of this shade. First prize Boston, 1892, also first prize 1894, for best ten blooms any other color. 50 cts. each.

MRS. R. CRAWFORD (Harris). An extra large clear white of most exquisite form and build of bloom, shape just like Ivory, but much larger. Color same pearly tint. Flowering Thanksgiving to December. Classed by its originator W. K. Harris, as the gem of the season. 50 cts. each.

ADELAIDE C. LOOMIS. Extra large Japanese variety, broad cupping petals; inner surfaces deep rose pink, reverse shell pink, a beautiful combination. A glorious pink of great size and magnificent form. 35 cts. each.

SIGNAL LIGHT. Pale yellow incurved Japanese. Reverse of lower petals tipped red bronze, finely built flowers, as truly incurved as a Chinese; solid and perfectly double, lasting a long time. Habit very dwarf. Foliage beautiful and right up to the bloom. Awarded N. C. S. Certificate, 1895. 50 cts. each.

MRS. H. H. BATTLES (Harris). Large incurved Japanese bloom, with full center and high round form. White, shading blush at base. Strong, sturdy habit, medium height. In perfection during December. 35 cts. each.

MIDNIGHT. Enormous double and solid Japanese bloom, with broad cupping petals, densely covered with hairs in style of R.

M. Gray or Hairy Wonder. Color rich crimson lake. A new and striking departure and the largest of all the hirsute varieties. 50 cts. each.

LIBERTY. Of beautiful form, 8 inches in diameter, reflex in its earlier stages, incurving and of perfect globular shape when fully developed. Color a clear rich deep golden yellow. Habit dwarf but robust. Foliage and stem perfect. At its best about December 10th and later. A fine keeper and shipper combining a great combination of good qualities. Scored 98 points out of a possible 100, before the jndges of the American Chrysanthemum Society. 50 cts. each.

MRS. D. HATFIELD. A pure yellow Chinese of perfect habit and build, superb in its class. Lemon yellow incurved, fine form with high center, foliage ample and well up to flower, stiff stem and straight. 50 cts. each.

COLUMBINE. Very early incurved Japanese of fine rounded form. Interior of petals scarlet red, exterior rich bronze. Extra dwarf; a fit companion in size and habit for Ivory, although dwarfer. Recommended by National Society. 35 cts. each.

NEW YORK. Very large incurved Japanese, densely packed with petals, which are regularly formed, filling up well to the center, of great substance and regular outline; color white; foliage and stem good and able to sustain the massive bloom. Awarded 1894 National Certificate at New York and Philadelphia, also Silver Medal at New York, 1895, a second Certificate by the same Society. 50 cts. each.

The complete Set of 25 Varieties, - - - - - $6.00
Varieties listed at 35 cts., per 100, - - - - 25.00
" " 50 " " - - - 35.00

NOTICE.—The price of New York is 50 cts. each, net, regardless of quantity taken.

The La Fayette Collection of Eight Selected New Sorts.

MRS. WM. C. EGAN. A large variety of Ada Spaulding type, but much larger, more perfect in build and has greater depth. The color, crimson pink at the base, shading at the apex to pale sulphur, suffused with strawy buff on outside of petals. An excellent keeper. Height 3½ feet; strong growth and fine foliage. Matures October 15th to 20th, and can be classed among the early varieties. It has also proven of the best to be grown to single stem plants. First prizes wherever exhibited. Certificated by Chicago and Cincinnati Committees. Certificated at Chicago Show, also Silver Premium for best seedling exhibited at this Show. First-class Certificate at Indianapolis Show. 50 cts. each; $5 per dozen; $35 per 100.

AMARANTH. A reflex variety of considerable depth. Diameter of flower 5 to 6 inches and a depth of 4½ to 5½ inches. Color white, heavily shaded with amaranth. The form of flower greatly resembles Inter-Ocean, the petals being much broader and of more substance. A late variety. Growth 3 to 3½ feet straight, and has an abundance of foliage up to the flower. American Chrysanthemum Society Certificate at Chicago, November, 1894. 50 cts. each; $5 per dozen; $35 per 100.

TIPPECANOE. An incurved variety of a peculiar type difficult to describe. The florets are tubular with an open flare at the ends; inside a pink terra cotta with light reverse. The flower presents varying color effects under different exposures of light. An excellent exhibition bloom. Height 3 to 3½ feet with a straight stem and good foliage. American Chrysanthemum Society Certificate at Chicago, November, 1894. 50 cts. each; $5 per dozen; $35 per 100.

E. M. BIGELOW. Received Certificate at the Chicago Exhibition. As described there, "best red to date." Almost perfect

habit as exhibited. Large sized bloom, full and regular incurved. Color of flower a deep, reddish crimson. Height from 3 to 4 feet. Ideal growth. Stems short jointed, growing up straight without branching; very strong. Foliage nearly up to the flower, of good form and a rich, dark green. 20 cts. each; $2 per dozen; $10 per 100.

MRS. S. T. MURDOCK. Received Certificate at the Chicago Exhibition and also at Indianapolis. Improvement over any existing tones of light rose or pink, all things considered. Good size, substance and finely formed. Height from 3 to 4 feet. Stems short jointed and very strong. Will prove an excellent market variety and splendid shipper. 20 cts. each; $2 per dozen; $10 per 100.

OAKLAND. Received special mention at the Chicago Exhibition. Clear shade of even terra cotta. An ideal bloom, full and deep. Height 4 to 5 feet with strong, straight stem, beautiful foliage, deeply cut. 20 cts. each; $2 per dozen; $10 per 100.

MILLBROOK. Received special mention at the Chicago Exhibition. A large exhibition flower, after the Viviand-Morel type, of a bronze salmon red shade. Height 3 feet. Stems very strong and short jointed, with large foliage up to the flower. 20 cts. each; $2 per dozen; $10 per 100.

MISS ELMA O'FARRELL. A late variety. A large reflex with smooth, even petals of a fine salmon rose shade. Height 4 feet. 20 cts. each; $2 per dozen; $10 per 100.

Cottage Garden Collection of Twenty-Seven Selected Commercial Varieties.

MRS. HENRY ROBINSON. A perfect form of the Queen of England type, of exceptional merit, large and well finished. An early white, blooming October 5th. Fine substance and very lasting. One of the most popular early commercial sorts. 20 cts. each; $1.50 per dozen; $10 per 100.

MME. F. BERGMANN. A very fine extra early white. Very full, of good size and pure white with creamy center. 2½ feet. October 4th. Early crown or terminal bud. 10 cts. each; $1 per dozen; $6 per 100.

MISS KATE BROWN. Early white; October 4th; 3 feet; quite double; small flower: early crown. One of the first to come into market. 10 cts. each; $1 per dozen; $6 per 100.

MAUD DEAN. Rosy pink. One of the very best of its color; broad stiff petals, nicely incurving; fine for cutting. Early crown; 3½ feet. 10 cts. each; $1 per dozen; $6 per 100.

MRS. E. G. HILL. A fine early pink; rather a tall grower. Take late cuttings and dwarf by withholding water, giving about half usual quantity; will then grow four to five feet. Give plenty of head room. Early crown or terminal. 10 cts. each; $1 per dozen; $6 per 100

MISS MINNIE WANAMAKER. A fine creamy white incurved flower, forming a perfect ball; quite distinct from any white Chrysanthemum in cultivation; of a free and dwarf growth. 10 cts. each; $1 per dozen; $6 per 100.

VIVIAND-MOREL. Tender rose of very silky texture; petals long and straight. A fine grower. A leading main crop pink. 10 cts. each; $1 per dozen; $6 per 100

WM. H. LINCOLN. A magnificent golden yellow variety, with straight flat speading petals; an extra large flower, completely double and of great substance. Favorite market sort. 10 cts. each; $1 per dozen; $6 per 100.

EUGENE DAILLEDOUZE. Very large; grand exhibition flower of the very highest quality; Columbian Medal, Chicago. 10 cts. each; $1 per dozen; $6 per 100.

NIVEUS. White flowers of tremendous size, snowy white; strong grower, healthy abundant foliage, strong stems. A No. 1 in every way. 10 cts. each; $1 per dozen; $6 per 100.

IVORY. An elegant variety; pure white flowers of perfect form; of medium size and blooming in the greatest profusion.

Makes an elegant pot plant, as the habit is compact and bushy, and when in bloom is a mass of white. 10 cts. each; $1 per dozen; $6 per 100.

HELEN BLOODGOOD. A grand thing. The prettiest pink in cultivation. There is nothing like it. Three certificates. 20 cts. each; $2 per dozen; $10 per 100.

MAYFLOWER. A grand bold white, very large and incurving; strong stem; good foliage; terminal bud; 3½ feet to 4 feet; a leader in the New York market. 20 cts. each; $2 per dozen; $10 per 100.

YELLOW QUEEN. Extra large, bright, clear yellow; opens October 10th; 3 feet; take the early crowns; will not bear much heat. Leading early yellow in the New York market. 10 cts. each; $1 per dozen; $6 per 100.

W. N. RUDD. Perfectly double; pale lavender pink. Good market sort. 10 cts. each; $1 per dozen.

MARION HENDERSON. Bright yellow; early; desirable. 10 cts. each; $1 per dozen.

ERMINILDA. Outer petals reflexed, inner incurving; rose pink; very fine. 10 cts. each; $1 per dozen.

MERRY MONARCH. Best large very early white. 20 cts. each; $2 per dozen; $10 per 100.

THE QUEEN. This is truly the queen of whites; extra fine, of largest size; very compact; regular flower; petals incurving; of fine style and finish. Early. 10 cts. each; $1 per dozen; $6 per 100.

MAJOR BONNAFFON. One of the very best yellows. 3 feet. An exhibition as well as market bloom. A soft, clear yellow of the incurved type. Perfect form and finish with a model foliage and stem. Special Columbian Medal, Chicago, 1893, and a leading prize taker 1894. Early midseason. 10 cts. each; $1 per dozen; $6 per 100.

MRS. JEROME JONES. One of the finest white Chrysanthemums ever raised. It is very distinct and of exquisite finish and form, with unusually straight strong stems; foliage very dark green, shining as if varnished. 10 cts. each; $1 per dozen; $6 per 100.

PHILADELPHIA. The sensational variety of the year. Certificate wherever shown. An enormous globular Japanese with broad incurving petals. Color white, shading to pale lemon. Stiff stems and nice foliage, about 4 feet in height. 20 cts. each; $2 per dozen; $10 per 100.

MISS LOUISE D. BLACK. Color reddish orange, height 4 feet, terminal bud; somewhat like Dailledouze in habit; flower compact, very full and conical. Lasts an indefinite length of time, either on or off the plant. Received certificate at Indianapolis and Philadelphia, and honorable mention at Chicago. 20 cts. each; $2 per dozen; $10 per 100.

MISS GLADYS SPAULDING. One of the best whites extant. An improvement on Mrs. R. Craig, both in size and texture of petals. An exceedingly well built flower; stiff stem. N. C. S. at New York and Philadelphia. 20 cts. each; $2 per dozen; $10 per 100.

MARQUIS DE MONTMORT. First early pink; best early pink for market. 20 cts. each; $2 per dozen; $10 per 100.

CANNAS.

The dwarf large flowered French Canna possesses so much merit as a bedding plant that it has been a constant source of surprise to us that more of them have not been used. No plant gives a richer return for the investment than these Cannas. Their broad luxuriant tropical foliage surmounted by enormous trusses of magnificent brilliant colored flowers, produces an effect when planted in masses on lawns, large grounds or parks which cannot be secured by the employment of any other plant or combination of plants.

Their care and culture is so simple, and success so certain, that every lover of flowers should certainly try a bed of the improved varieties.

When one considers that for an expenditure of from $5.00 to $10.00 invested in the dry roots or started bulbs, one can have one, or two gorgeous beds 10 feet in diameter of these magnificent plants it would seem as if no lover of flowers of ordinary means should deny themselves such an inexpensive luxury.

The plants grow from 3 to 6 feet high, and flowers range in color from nearly pure yellow to flaming scarlet and the deepest crimson. Some of the trusses of flowers are 8 to 10 inches in diameter and individual florets 4 to 6 inches across. The plants are a constant mass of flowers till cut down by the severe frosts in November.

The Canna is pre-eminently the Bedding Plant for American Gardens.

CULTURE.—Have your beds thoroughly prepared and enriched by digging in a coat of 5 to 6 inches of well rotted manure as early in the spring as the soil can be safely worked. Have the bed rather flat so that it will retain water rather than cause it to run off. A perfectly flat bed, raised slightly at the edges (basin-like), is the best form, as that will retain water, and Cannas revel in an abundance of moisture at the roots. If dry roots are used plant early in May, at the same time corn is planted, placing the crown about 3 inches below the surface of the soil. If started plants are used, the 25th of May is early enough to set them out. The plants or bulbs should be planted about 16 to 18 inches apart each way—the tall varieties in the center, and the dwarf varieties on the outer edge.

After planting, the only care necessary is to stir the soil two or times in order to keep down the weeds until the Cannas get full possession; after that they will care for themselves. During July and August, the hose should be turned into the bed once a week and the bed thoroughly wet down. A few shovels full of chicken manure scattered among the plants will produce a magnificent growth.

In the fall, after the tops have been killed by frost, the bulbs may be dug up and kept till the following spring, then divided and planted again.

TRY A BED OF OUR NEW FRENCH CANNAS. THEY WILL NOT COST MUCH AND WILL GIVE YOU A GRAND DISPLAY THE ENTIRE SEASON.

We offer at the very low prices quoted, strong dormant roots showing at least two good eyes, which may be shipped per express at any time; or strong started eyes, ready for delivery from May 25th onwards.

Our collection consists of the cream of the latest introductions and novelties and has been carefully selected in order to secure those varieties that produce the richest and most massive displays of flowers and foliage, the entire season.

COLLECTIONS.

OUR SELECTION OF VARIETIES.

FOR $1.50, - - - 12 DORMANT ROOTS IN 6 VARIETIES.
" 6.00, - - 100 " " " 10 "
" 40.00, - - 1000 " " " 12 "

Freight Charges Prepaid.

CANNAS.

CHAS. HENDERSON. 3 to 4 feet. A splended compact dwarf grower, throwing up erect compact heads of bloom of immense size. Color dark crimson. Center of the flower marked with gold pencilings; this is one of the handsomest varieties. Some varieties on account of being tall growers are not adapted for pot culture, while they may be better suited for outdoor bedding. This variety is one of the very finest for this purpose on account of its dwarf habit, besides being valuable for outdoor bedding in conjunction with others. We believe Chas. Henderson without question will give more satisfaction generally than any other variety sent out up to date, and we can recommend it very highly. No variety we have tested has ever compared with it in any way. We believe it to be unsurpassed for outdoor bedding, and we recommend it with the assurance that it will give unqualified satisfaction. $1 per dozen; $5 per 100; $40 per 1000; in 5000 lots, $30 per 1000.

ALPHONSE BOUVIER. 5 to 6 feet. This is a grand Canna for bedding. It is a luxuriant grower, considerably taller than Mme. Crozy, throwing up flower stems freer than that variety. Under good cultivation the plant will grow six feet. It begins to bloom very early, and is one continuous mass of crimson the entire season. The tips of the shoots are surmounted by immense clusters of bright crimson flowers of the very largest size, and nothing can exceed their brilliancy. A large plant in bloom sometimes has on as many as 30 or 40 large brilliant clusters of flowers. For general bedding purposes it surpasses Mme. Crozy, no other variety exceeding it for effectiveness and grandeur. $1 per dozen; $5 per 100; $40 per 1000; in 5000 lots at $30 per 1000.

MADAME CROZY. 3 to 3½ feet. Flowers flaming scarlet, bordered with gold. This is a well known and still an ideal sort. No plant introduced has given such universal and unqualified satisfaction. Compact dwarf grower, producing an abundance of large very showy heads of bloom. Very effective as a bedding plant; one of the most popular and desirable. $1 per dozen; $5 per 100, $40 per 1000.

COUNT HORACE DE CHOISEUL. Very dwarf with close compact habit and large sized flowers. Beautiful carmine color. A

fine pot plant and a fine bedder, particularly valuable on account of its dwarf habit, beautiful color and good sized flowers. $1 per dozen; $5 per 100.

F. R. PIERSON. A superb variety. The petals are very round, overlapping each other, and recurve, giving the entire head a very compact appearance. When trusses are fully expanded it makes an immense globular head of scarlet. The color is an intense glowing scarlet, the center of each flower being touched with yellow, giving it the effect of a golden heart, intensifying the brilliancy of the scarlet and adding to the beauty of the flower. It is a compact grower and a free bloomer, but its chief value lies in its brilliant color, immense truss and perfect flower. 50 cts. each; $5 per dozen.

QUEEN CHARLOTTE (Koenigin Charlotte) 3 to 4 feet. This is a very striking Canna, raised by Pfitzer, of Stuttgart, Germany, and has attracted much attention as it has a very striking and distinct flower. The center of the flower is bright scarlet, each petal bordered with a broad band of pure golden yellow. It is a dwarf grower about three feet in height. On account of its striking and brilliant effectiveness, it cannot fail to attain great popularity, and it should be in every collection. For bedding we consider this the most striking and effective Canna extant. 20 cts. each; $2 per dozen; $10 per 100.

ELDORADO. 3½ feet. This is a grand variety and the finest yellow Canna raised to date. The flower is so nearly a pure yellow as to show no trace of color at a short distance. In Eldorado, we have a first class yellow. The flowers never fade, dropping from the flower spike as soon as they pass perfection, leaving it bright and clean, so that the bed is always a mass of the brightest golden yellow. The flowers are of the largest size, being larger and more perfect in every way than Mme. Crozy. They are broader with broader petals, the petals being almost an inch and a half wide. 50 cts. each; $5 per dozen.

SUNSHINE. This variety produces the largest truss of bloom and the largest individual flower, some measuring as much as six inches across. It is also one of the most vigorous growers, sending up numerous strong shoots which makes it an unusually free bloomer. It is dwarf in habit, color, deep orange, suffused with scarlet, with a delicate fringe of gold around the petal. It is the best variety of this particular shade of color that has been raised up to this date, being a great improvement on Paul Marquant, which it somewhat resembles. 35 cts. each; $3 per dozen.

ORIOLE. This is an exceedingly showy Canna, similar in color to Queen Charlotte, but a stronger grower. The center of the flower is bright scarlet with a broad edge of yellow, which is not so wide as in Queen Charlotte, the scarlet and yellow blending more. The flowers show no tendency whatever to fade. 35 cts. each; $3 per dozen.

GEOFFREY ST. HILLIARE. 5 to 6 feet. Large flowers of a rich scarlet, overlaid with orange; bronzy purple foliage. Strong vigorous grower. Foliage heavy; plant stools rapidly and soon makes a heavy mass of bronze foliage which is very striking and effective. Of the easiest culture and one of the most effective of the dark sorts. 75 cts. per dozen; $4 per 100; $35 per 1000.

PRESIDENT CARNOT. 4 feet. Orange-scarlet suffused with pink; a beautiful color; good sized heads with large flowers and very fine brilliant chocolate maroon foliage. One of the finest dark leaved sorts, distinct and good. $1 per dozen; $6 per 100.

J. D. CABOS. 4 to 5 feet. Dark greenish maroon colored foliage with a bronze metallic luster. Flowers bright Orange or apricot sometimes brightened with a pinkish tinge. One of the most distinct of all Cannas, and one of the very finest, being a fine grower and a very early profuse continuous bloomer. Flowers of the largest size and of a color that is very pleasing, and there is nothing similar to it. One of the best all round Cannas introduced to date. $1 per dozen; $6 per 100.

EHEMANNI. 4 to 5 feet. Enormous broad leaves 12 to 14 inches broad. Flowers on long foot stalks, pendant resembling the flowers of some orchids. Color a rich shade of purple. Very striking and effective in masses, especially with shrubbery as a background. Fully as effective as a dwarf banana. $1.50 per dozen; $8 per 100.

We Have Received the Highest Awards Wherever Our Carnations Have Been Shown.

By the Massachusetts Horticultural Society.

Certificate of Merit for Carnation Storm King.
Honorable Mention and Comp. Notice, Carnation Meteor.
Honorable Mention and Comp. Notice, Carnation Bridesmaid.
First Prize for display of Carnations.
Gratuity Prize for display of Carnations.

By the Pennsylvania Horticultural Society.

Certificate of Merit for Carnation Meteor.
Certificate of Merit for Vase of Seedlings.
First and Second Prizes in same competition for vases of 100 blooms.

By the American Carnation Society.

Certificate of Merit for Carnation Storm King.
Certificate of Merit for Carnation Meteor.
First Prize for Carnation Storm King.
First Prize for Carnation Meteor.

By The New York Florists' Club.

The Dean Cup, value $50, for best display Carnations. First Prize, first day's competition.
The Special Club Cup, value $25, for best display Carnations. First Prize, second day's competition.
First prize for best Pink, with Bridesmaid.
First Prize for best Crimson, with Meteor.
First Prize for best White, with Storm King.
Certificate of Merit for Seedling Storm King.

From THE FLORISTS' EXCHANGE, January 25, 1896.

REPORT OF PENNA. HORTICULTURAL SOCIETY MEETING.

The exhibit of Carnations at this meeting was very good and attracted much attention. C. W. Ward, of Queens, N. Y., took both first and second premiums for vase of 100 Carnations, one variety. First premium with Storm King; second premium with Bridesmaid. The same exhibitor was also awarded a Certificate of Merit for a vase of Meteor, and a Certificate of Merit for a vase of unnamed seedlings of 1894. The entire exhibit was well worthy of special mention, such handsome flowers have not been seen here in some time. Mr. Ward deserves great credit and the florists of this city highly appreciated the compliment of his going to the trouble of coming to Philadelphia with such a splendid exhibit.

From THE FLORISTS' EXCHANGE, February 1, 1896.

REPORT OF CHICAGO FLORISTS' CLUB CARNATION MEETING.

C. W. Ward, of Queens, N. Y., sent Storm King. Although arriving too late for exhibit, we saw the flowers at Bassett & Washburn's on Saturday and pronounce them the finest Carnations, even then, we have ever seen.

From THE AMERICAN FLORIST, January 25, 1896.

REPORT OF PENNA. HORTICULTURAL SOCIETY MEETING.

A very choice collection of Carnations was exhibited by Mr. C. W. Ward, of Queens, N. Y. There were three particularly fine vases, one each of Bridesmaid, Meteor and Storm King; they were probably better than anything every exhibited before in this City. The vase of Storm King received the first prize for a vase of 100, while a similar vase by same grower of Bridesmaid received second. The vase of Meteor was awarded a Certificate of Merit.

From THE AMERICAN FLORIST, February 1, 1896

REPORT OF CHICAGO FLORISTS' CLUB CARNATION MEETING.

The large vase of Storm King from The Cottage Gardens, Queens, N. Y., contained magnificent flowers on 20 inch stems. As grown by Mr. Ward this white is hard to beat.

FROM OUR CUSTOMERS.

JENKINTOWN, PA., January 18th, 1896.

MR. C. W. WARD,

Manager of Cottage Gardens.

DEAR SIR:—In reply to yours of the 16th inst., enquiring how the Carnations that I have bought of you the past two years have done, I would say that in the spring of 1894 I bought R. C. of several kinds. Among the lot were some McGowans. Planted side by side with my own stock of McGowans they grew better all summer, and when taken into the house continued to show the same difference, growing stronger and giving more and better flowers. I propagated from your stock of McGowans but not having enough bought 2000 McGowans of you in March, 1895.

Again, the same difference has been noticeable. The summer of 1895 was very dry and a great many of the plants set out died so that I did not have enough to fill my houses and in September last I bought 1100 plants of you. They were the finest plants that ever went into my houses. I have never had plants do as well.

You have something in you soil or climate that enables you to grow a plant that will give more and better flowers than it seems possible for me to do. So much so that I have decided to have you grow 5000 plants for me, to be delivered Sept. 1st next.

Will you please quote me price on:—1000 Alaska, 1500 McGowan, 500 Albertine, 1500 Scott, 500 Meteor.

Very truly yours,

JOSEPH HEACOCK.

The carnations procured from you last fall were the healthiest and cleanest stock I ever saw. They have done exceedingly well. As I required these for stock, health and vigor, of course, was the great desideratum. In these days of rust, bacteria, and all the ills which affect the carnation, it is a great pleasure to know where to procure stock free from these diseases.

Yours very truly,

GEO. E. FANCOURT, Rose Grower.

I take much pleasure in stating that the carnation plants that we got from you last fall were strong, healthy plants, and have given entire satisfaction, growing nicely and blooming freely. Many thanks for liberal treatment.

Yours truly,

ANDREW MACKAY, Florist and Gardener.

Monroe, N. Y

BELLMORE, L. I.

The carnations purchased of you proved to be healthy and vigorous. They were very satisfactory. Your description of the merits of the new varieties was not overdrawn, thereby establishing our confidence in your stock for the future.

Yours respectfully,

R. P. JEFFREY & SON, Nurserymen and Florists.

SOUTHBRIDGE, MASS.

The carnation plants I bought of you last year were perfectly healthy and have flowered freely. I shall want some more this year. Previous to buying of you, I was unable to get healthy plants.

Yours,

T. J. HARRINGTON, Florist.

WANTAGH, N. Y.

The plants I bought from you last year are doing splendidly and look very fine and healthy. No sign of rust, and cutting a good crop of flowers. I am much pleased with them. Don't fail to send me your price list.

Yours very truly,

P. W. BEHRENS, Florist.

NEW HAVEN, CONN.

The plants I purchased of you last fall have developed into strong, healthy plants, and are at present carrying a heavy crop of buds, satisfactory in every way. I, for one, must say I never saw as strong, healthy, good looking plants.

Yours truly,

SMITH T. BRADLEY, Florist.

SOUTH HINGHAM, MASS.

The carnations bought from you last spring arrived in good order, and did nicely through the season. I was much gratified to find them free from rust and that the disease did not develop as the plants grew. I appreciate this the more, having introduced the rust with plants bought elsewhere the year before, and being obliged to destroy many plants before I finally got clear of it.

Yours respectfully,

U. S. BATES, Florist.

WOBURN, MASS.

It gives me pleasure to state that the Daybreak cuttings purchased of you last spring were very satisfactory. In the house they have proved the best all around pink that I am growing to-day. In evidence of my faith in the *quality* of your stock, please double my order of last month.

E. G. BRIDGE, Florist.

BRAMPTON, ONT.

The carnation plants which I bought from you last season did fine. Wm. Scott was without exception the cleanest and best stock of any new carnation I ever bought. Many of the new varieties are ruined in constitution by bad treatment before they are sent out. From 100 plants of Wm. Scott I picked 200 No. 1 flowers the day before Christmas. Had also been picking quite a number right along previous to that time. I think this speaks well for this variety.

Yours respectfully,

H. DALE, Cut Flower Grower.

BRADFORD, PA.

The carnation plants received from you last season were in every way perfectly satisfactory, and are now large thrifty plants, with all the buds and blooms one could wish.

Yours respectfully,

W. C. ROCKWELL

NEW ROCHELLE.

The several shipments of carnation plants which we received from you for filling our orders came in excellent order. The plants were first class and are giving general satisfaction.

Yours very truly,

SIEBRECHT & WADLEY, Florists.

COTTAGE GARDEN CARNATION SPRAY NOZZLE.

FIG. 186

The cut illustrates a new Spray Nozzle, especially designed for Carnation growers by C. W. Ward, of the Cottage Gardens, Queens, N. Y., and has been perfected after several years' careful study and experimenting in spraying carnations for the prevention of such fungous diseases as rust, spot, bacteria, as well as red spider and other insects.

In the course of his experiments he found that much of the good results that ought to accrue from spraying was (with ordinary spraying apparatus) lost through inability to properly coat the under side of the foliage with fungicides, thus leaving always more or less of the spores unaffected by the remedy. With this new nozzle every portion of the foliage can be thoroughly coated with the fungicides and a positive application can be secured.

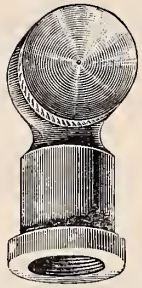


FIG. 51.

We supply **Fig. 186** regularly with the "Masson" Nozzles as shown in the illustration, and would recommend these nozzles for driving a strong spray upwards to wash off red spider. The nozzles are made right and left handed, so that one can close either without being suffused with the liquid.

We furnish also the **Fig. 51** "Cyclone" Nozzle, which should be used for applying fungicides, for with these nozzles the lower portions of the plant can be thoroughly sprayed without getting any of the mixture on the flowers.

Fig. 186 is constructed with two elbows which may be set at different angles, so that the spray may be driven at any angle reaching the top, underneath or either side of foliage. The lances are made two feet long, one piece being 18 inches, on to which a 6-inch piece is coupled, so that its length can be reduced to 18 inches for use in narrow paths.

In spraying carnations the lance is held close to the ground and passed between the rows of plants and throws a strong lateral cloud of mist against the plants on both sides of the lance. By means of the lance the centers of wide benches may be effectually sprayed as well as the back sides of side benches. At the butt of the lance there is an elbow connection to hose which makes it easy to work the lance between the rows, and saves bending the hose and its consequent wear and tear.

Shorter or longer lengths of lance will be furnished if required.

While this sprayer was designed especially for Carnationists, it may be used to advantage wherever it is desirable to reach the under sides of the foliage of any plant.

Fig. 186, with lance two feet long, two right and left "Masson" Nozzles (as shown in illustration) and two **Fig. 51**, "Cyclone" Nozzles, fitted to connect to ½ or ¾-inch hose. **$2.50**

Or, FREE with every order amounting to $25.00 or over, where no other Premium is taken.

THE ACME HOSE COUPLER AND IMPROVED HOSE BAND.

Hose Band.

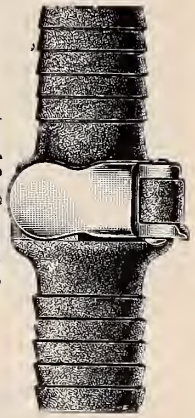
1 and 2—Disconnected

Simplicity itself. INSTANTANEOUS in operation. A watertight joint can be made by two positive motions. Not necessary to discard old couplings as Acme couplers can be used with them.

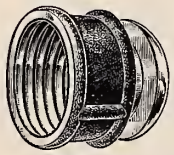
Having used the Improved Acme Hose Couplers and Hose Bands for the past two years we have found them invaluable in mending breaks in old hose.

No special tools are required, any ordinary hand can use them. Engage the lever in the farthest notch it can reach, press down the lever, then hammer down the Ears and the lever is locked.

The lever cannot slip.

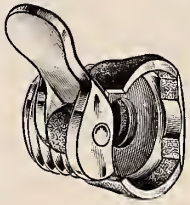


1 and 2—Connected.



No. 3.

No. 3—FOR NEW AND OLD HOSE. Screws on faucet, ground pipe, or hose crook, on any of which it may be left permanently, and to it the hose is readily attached by the lever connections, No. 1 or 4.



No. 4.

No. 4—FOR OLD HOSE. Screws into old style couplings on hose and attaches to No. 2 or 3.

Used as an intermediate for connecting nozzle to No. 2 or 3.

PRICE LIST.

	SIZE INCHES.				
	½ in.	¾ in.	1 in.	1½ in.	2 in.
Nos. 1 and 2 per dozen sets.....	$ 3.50	$ 3.50	$ 8.50	$24.00	$40.00
" 3 and 4 " " "	3.50	3.50	8.50	24.00	40.00
" 1 per dozen	2.40	2.40	5.00	16.50	28.00
" 2 " "	1.20	1.20	3.50	8.50	14.00
" 3 " "	1.20	1.20	3.50	8.50	14.00
" 4 " "	2.40	2.40	5.00	16.50	28.00
Hose Bands per gross.....	5.00	5.00	6.00		
Hose Crooks per dozen.....	4.00	4.00			

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